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PRODUCE NEW SURGICAL, ELECTRICAL DEVICES;
DEVELOP ELECTROMECHANICAL PROCESSES

USES ELECTRIC-SPARK, HIGH-FREQUENCY METHODS -- Leningradskaya Pravda,
No 104, 1 May 50

The Leningrad Krasnogvardeyets Plant is steadily expanding the range of surgical instruments and medical apparatus produced. This year it has mastered production of 38 new items developed by workers of the plant in close conjunction with eminent medical practitioners. These include a tonometer for determining blood pressure, an oscillation tonometer, and an oscillograph. These instruments facilitate the physician's examination of the cardiovascular system.

New techniques are being widely applied in the shops, and new shops are being organized. These include a galvanizing shop, stainless steel casting shop, and a quartz mercury vapor lamp shop. The plant has made extensive use of electric-spark machining and high-frequency hardening. The method of nickel plating has been improved.

Every packaged item contains a special questionnaire asking for opinions on the quality and structural deficiencies of the article. This practice serves to interest physicians in many parts of the country in the improvement of medical equipment

SELLS WIDE RANGE OF MEDICAL EQUIPMENT -- Vechernyaya Moskva, No 97, 24 Apr 50

For the information of medical institutes and doctors, the Moscow City Pharmacy Administration announces that Store No 1 (52 Chkalovskaya Ulitsa, telephone: K-7-24-26) has on sale a large assortment of medical and surgical equipment for all medical specialties. For diagnostics there are dynamometers, blood pressure apparatus of both the mercury and manometer types, and combination apparatus for measuring blood pressure of both the arm and temple arteries.

Otorhinolaryngological equipment includes shadowless forehead lights, throat galvanocauters, caustic sticks, diaphanosopes, intubation instruments, and oil atomizers. For urology there are lithotrites and cystoscopes.

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Physiotherapeutic equipment includes such items as EKP-4 electrocardiographs, hydropathic equipment, portable galvanic apparatus (for electric shock treatment), and both therapeutic and surgical diathermic apparatus.

Other types of medical equipment available are kerosene autoclaves, electric autoclaves for 120-220 volts, both electric and ordinary sterilizers, operating tables, apparatus for producing artificial pneumothorax, and masks for ether narcosis. -- Advertisement

PLANS NEW SURGICAL INSTRUMENTS -- Sovetskaya Estoniya, No 99, 25 Apr 50

The Tartu Medical Instruments Plant is producing important equipment for medical institutions, such as dentists' chairs and operating tables. In 1949 the plant greatly reduced production costs.

It plans to produce other surgical instruments which are badly needed in hospitals and clinics, but progress is hindered by lack of help from the Ministry of Health Estonian SSR, to which the plant is subordinate. During the last few years, the minister has visited the plant only once. At that time he learned that the plant had not received necessary materials for several months, that it had no Five-Year Plan, and that it was getting its annual plans only after considerable delay. He promised to take measures for regulating supply and planning.

Although this was several months ago, few changes have taken place. For the first quarter, three plans were received, each of them different. According to the tentative plan for the second quarter, the labor productivity of one worker must increase 43 percent, but the variety of types assigned was such that the work could be done mainly by hand. The plan makes it impossible to utilize existing equipment fully, and is bringing machine tools to a systematic standstill.

ELECTROMAGNETIC DEVICE CHECKS ON EXCAVATOR OPERATION -- Trud, No 6, 7 Jan 50

Calculation of the work performed by excavators and draglines in strip mining was formerly performed by surveying. However, it is difficult to determine the exact mass extracted by the operator when he is working in a pit from which coal has already been removed in some quantity.

An electrician employed by the Vakrushevugol' Trust has invented a calculating machine which accounts for and checks on the operation of excavators and draglines. The calculator works on the principle of electromagnetic induction. An iron core is placed in the magnetic field created by the sluing of the excavator and movement of the bucket. Through the electromotive force induced in the core, the precise number of full work cycles performed by the machine is determined. Since the volume of the bucket is known, the amount of earth removed may be calculated easily.

SOLDERS RUBBER WITH HIGH-FREQUENCY CURRENT -- Leningradskaya Pravda, No 101, 28 Apr 50

High-frequency currents are now used for processing metal, ceramics, wood, and rubber. An apparatus which resembles a sewing machine and fulfills the function of a sewing machine has a high-frequency current instead of a needle. When masticated rubber is soldered by the apparatus, it is impossible to tear it apart at the point of union.

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DESIGNS ELECTRIC PEN -- Leningradskaya Pravda, No 103, 30 Apr 50

A new electric pen has been designed and produced by workers of the laboratory for electrical processing of metals of the House of Technology, under the leadership of Sh. D. Achkinadze, chief of the laboratory.

In size and use the new instrument resembles a fountain pen. It has a thin stem, with an electric cord leading from the handle. It is used for writing on steel, iron, copper, glass, and porcelain. It leaves a uniform indelible line, the color depending on the metal from which the stem is made. It may also be used to draw patterns.

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